

Line-up for the future:

**VACUUMSCHMELZE shows two novelties at the PCIM:
DI-Sensor BEVAC and nanocrystalline alloy
VITROPERM 712**

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Nr.: 05/17

Hanau, 04 May 2017

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All-current sensitive residual current
sensor BEVAC



Example core for the alloy VP 712

Hanau – BEVAC and VITROPERM[®] 712: VACUUMSCHMELZE (VAC) will present two new products at the PCIM in Nuremberg from 16 to 18 May in Hall 7 at booth 123. The all-current sensitive residual current sensor BEVAC is characterized by an especially low switching threshold of 6 mA DC. It has been designed for charging electrical vehicles. With VITROPERM 712, VAC presents an advancement of the soft magnetic material for current-compensated chokes in high-performance applications. Further, at the center of the new booth concept are electric drives as well as solutions for intelligent electricity networks and electromobility.

VAC introduces with BEVAC a residual current sensor which according to IEC 62752, UL 2231 and GB 22794 standards is able to detect fault currents as low as 6 mA. The sensor is small and robust and provides a resolution of 0.2 mA. It is available in different mechanical types: either with a hole or with primary conductors with various configurations. BEVAC is used in the safety disconnection of the IC-CPD (In-cable Control and Protection Device), which is used for charging electrical vehicles.

Another highlight is VITROPERM 712, an advancement of the nanocrystalline material which has been optimized particularly for the use of current-compensated chokes in high-performance applications. Such typical applications are PV central inverters, wind power plants and large drives. The material is distinguished by its high DC load capacity which is essential in applications with high bearing currents. The permeability of the material lies between VITROPERM 250 and VITROPERM 500 and thus represents an expansion of the alloy spectrum. Compared to VITROPERM 500 a lower core weight is possible for special applications.

"As an important European trade fair, PCIM presents the latest developments, for example, of power semiconductors, passive components, intelligent drive technology and sensors. Our portfolio and booth concept are designed to present visitors with a range of solution to exact these areas in an application-specific and customer-oriented manner", says Norman Lemm, Head of Marketing at VAC.

VACUUMSCHMELZE

VACUUMSCHMELZE (VAC), based in Hanau, has 4,300 employees worldwide, 1,450 of whom are in Hanau. The company designs, produces and markets advanced materials, particularly with magnetic, but also with other physical qualities as well as related products. In 1914, the first vacuum furnace laid the foundation for today's VACUUMSCHMELZE. Industrial vacuum melting techniques for alloys have been in operation since 1923.

VAC Group today achieves annual sales of approx. 380 million euros in over 50 countries and is holder of around 800 patents. The company is among the world's most highly innovative developers of advanced industrial materials.

VAC's range of products comprises a broad array of advanced semi-finished materials and parts, inductive components for electronics, magnets and magnet systems for use in a wide variety of fields and industries spanning watch-making and medical technology, renewable energies, shipbuilding, installation technology, automotive and aviation. VAC's custom solutions are developed in close collaboration with the customer, reflecting the company's expertise in materials, applications and state-of-the-art production technology.

For more information, visit www.vacuumschmelze.com

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